

CLAIMS

WHAT IS CLAIMED IS:

1. An electronic device having a USB connector comprising:
a circuit board; and
a USB connector mounted on the circuit board;
wherein the USB connector comprising:
a body portion integrally formed on the circuit board;
at least one contact pad arranged on the body portion; and
a frame coupled attached to the body portion and mounted on
the circuit board.
2. The electronic device of claim 1 wherein the body
portion is surrounded with the frame.
3. The electronic device of claim 1 wherein the frame is
formed from metal.
4. The electronic device of claim 1 wherein the contact pad
is formed from copper foil.
5. The electronic device of claim 1 further comprising a
fastening portion arranged between the frame and the body for
attaching the frame to the body portion.

6. The electronic device of claim 5 wherein the fastening portion comprises a solder pad.

7. The electronic device of claim 1 wherein a concaving portion is formed in the proximity of the body portion, and a projecting portion is formed on the frame in opposition to the concaving portion, and wherein the frame is mounted on the circuit board by mating the projecting portion with the concaving portion.

8. The electronic device of claim 7 further comprising a connecting portion positioned in the proximity of the concaving portion and the projecting portion for securing the frame to the circuit board.

9. The electronic device of claim 8 wherein the connecting portion comprises a solder pad.

10. A USB connector for an electronic device having a circuit board therein, the USB connector comprising:

- a body portion integrally formed on the circuit board;
- a coupling pad arranged on the body portion; and
- a frame attached to the coupling pad and mounted on the body portion.

11. The USB connector of claim 10 wherein the body portion is surrounded with the frame.

12. The USB connector of claim 10 wherein the frame is formed from a metal.

13. The USB connector of claim 10 wherein the contact pad is formed from copper foil.

14. The USB connector of claim 10 further comprising a fastening portion arranged between the frame and the body for attaching the frame to the body portion.

15. The USB connector of claim 14 wherein the fastening portion is formed from a solder pad.

16. The USB connector of claim 10 wherein a concaving portion is formed in the proximity of the body portion, and a projecting portion is formed on the frame in opposition to the concaving portion, and wherein the frame is mounted on the circuit board by mating the projecting portion with the concaving portion.

17. The electronic device of claim 16 further comprising a connecting portion positioned in the proximity of the concaving

portion and the projecting portion for securing the frame to the circuit board.

18. The electronic device of claim 17 wherein the connecting portion comprises a solder pad.